Monarch Calsonite®
A new face for building

What is Calsonite®?

Calsonite® is a tough, durable external cladding. It is a reinforced concrete composite material specifically developed by Monarch to maximise the benefits and performance of the Monarch Building System. With a dense surface layer, internal reinforcing and reflective foil backing, Calsonite® is produced in sheets 27mm thick, 1200mm wide and lengths of either 2358mm or 2700mm. It is manufactured to strict quality standards. It is then robotically fastened offsite to a high tensile TRUECORE® steel frame to provide tough, durable external walls for residential homes which are installed onsite in a few days. A single, site applied acrylic render to the smooth external Calsonite® face provides the final, clean surface finish.

10 Year Warranty

When supplied as part of a Monarch Wall, Calsonite® is warranted for a period of 10 years** to not materially degrade, break down or crack and to be free from manufacturing defects. This warranty extends to its factory jointing and attachment to the Monarch Steel Frame.

* Based on a 3 point bend test
** Subject to the Product Warranty (Monarch Manufactured Building System).

Conditions available at www.monarchbuilding.com.au
Advantages of Calsonite®

The strength and durability of Calsonite® is the result of more than 10 years of advanced materials development and engineering. A reinforced concrete composite, it delivers benefits beyond those associated with traditional masonry and modern lightweight cladding.

10 times tougher than brick*
A concrete composite reinforced with fibreglass mesh, Calsonite® passes the ‘knock test’ and is not ‘drummy’ like fibre cement claddings. It is tough and durable whilst also accommodating a degree of slab movement without cracking. Independent tests also show that Calsonite® has at least 10 times more deflection before breakage than brick.

6 Star Energy Rating without bulk insulation in most situations
Calsonite® meets most Queensland insulation requirements without the need for additional bulk insulation.

Fire Resistant
Calsonite® fastened to a 78mm steel frame, cavity filled with CSR Fibertex 350 Rockwool and internally lined with standard non-fire rated plasterboard, achieves an FRL of 0/60/60 (tested by CSIRO).

Water Resistant
Complete waterproofing is afforded by two stages of moisture resistance: the aluminium foil backing to Calsonite® and the acrylic render applied onsite. This means that the frame, insulation and internal finishes remain dry, clean and free from rot, corrosion and mould. CSIRO testing for water penetration & leakage in accordance with ASTM E514-03 found “no evidence of water penetration on the back or sides of the panel” and that “no water had penetrated within 10mm of the test panel surface”.

No risk of rust
The absence of any steel in Monarch Calsonite® means that there is no risk of the board rusting.

Nearly half the Embodied Energy of Brick
Embodied Energy is a measure of the total energy required to produce a product. Products which have a lower embodied energy per ‘unit’ contribute less to greenhouse gas emission and their consequential effects on the environment. Production of Calsonite® requires 49% less energy than brick.

Reduces your total cost and time to build
Calsonite® does away with the need for bricklayers and as part of the Monarch Building System it is faster and easier to install and requires fewer trades onsite.

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* CodeMark certified as part of the Monarch Building System

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